

Title (en)

NOVEL TUMOR-SPECIFIC ANTIGENS FOR OVARIAN CANCER AND USES THEREOF

Title (de)

NEUARTIGE TUMORSPEZIFISCHE ANTIGENE FÜR EIERSTOCKKREBS UND IHRE ANWENDUNGEN

Title (fr)

NOUVEAUX ANTIGÈNES SPÉCIFIQUES À UNE TUMEUR POUR LE CANCER DE L'OVAIRE

Publication

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Application

EP 20832110 A 20200622

Priority

- US 201962866089 P 20190625
- CA 2020050869 W 20200622

Abstract (en)

[origin: WO2020257922A1] Ovarian cancer, notably high-grade serous ovarian cancer (HGSC), the principal cause of death from gynecological malignancies in the world, has not significantly benefited from recent progress in cancer immunotherapy. While HGSC infiltration by lymphocytes correlates with superior survival, the nature of antigens that can elicit anti-HGSC immune responses is unknown. Novel tumor-specific antigens (TSAs) shared by a large proportion of ovarian tumors are described herein. Most of the TSAs (>80%) described herein derives from aberrantly expressed unmutated genomic sequences, such as intronic and intergenic sequences, which are not expressed in normal tissues. Nucleic acids, compositions, cells and vaccines derived from these TSAs are described. The use of the TSAs, nucleic acids, compositions, cells and vaccines for the treatment of ovarian cancer is also described.

IPC 8 full level

C07K 14/82 (2006.01); **A61K 9/127** (2006.01); **A61K 35/12** (2015.01); **A61K 35/17** (2015.01); **A61K 39/00** (2006.01); **A61P 35/00** (2006.01); **A61P 37/04** (2006.01); **C07K 7/06** (2006.01); **C07K 14/47** (2006.01); **C07K 14/725** (2006.01); **C12N 5/078** (2010.01); **C12N 5/10** (2006.01); **C12N 15/12** (2006.01)

CPC (source: EP IL KR US)

A61K 9/127 (2013.01 - IL); **A61K 35/17** (2013.01 - EP IL KR); **A61K 38/00** (2013.01 - IL); **A61K 39/0011** (2013.01 - EP IL KR US); **A61K 45/06** (2013.01 - EP IL KR); **A61P 15/00** (2018.01 - US); **A61P 35/00** (2018.01 - EP IL KR US); **A61P 37/04** (2018.01 - EP IL); **C07K 7/06** (2013.01 - EP IL); **C07K 7/08** (2013.01 - US); **C07K 14/4748** (2013.01 - EP IL KR); **C07K 14/70517** (2013.01 - US); **C07K 14/70539** (2013.01 - KR); **C12N 5/0693** (2013.01 - EP IL); **C12N 15/1135** (2013.01 - US); **A61K 9/127** (2013.01 - EP); **A61K 38/00** (2013.01 - EP); **A61K 2039/892** (2018.08 - EP IL KR); **C12N 2310/11** (2013.01 - US)

Citation (search report)

- [I] WO 2017009400 A1 20170119 - IMMATICS BIOTECHNOLOGIES GMBH [DE]
- [I] WO 2018138257 A1 20180802 - IMMATICS BIOTECHNOLOGIES GMBH [DE]
- [E] WO 2020260898 A2 20201230 - THE FRANCIS CRICK INSTITUTE LTD [GB], et al
- [XP] QINGCHUAN ZHAO ET AL: "Proteogenomics Uncovers a Vast Repertoire of Shared Tumor-Specific Antigens in Ovarian Cancer", CANCER IMMUNOLOGY RESEARCH, vol. 8, no. 4, 11 February 2020 (2020-02-11), US, pages 544 - 555, XP055715865, ISSN: 2326-6066, DOI: 10.1158/2326-6066.CIR-19-0541
- See also references of WO 2020257922A1

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DOCDB simple family (application)

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